

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Masumi WADA, et al.

SERIAL NO: New Application

GAU:

FILED: Herewith

EXAMINER:

FOR: HIGH ACCELERATION TIME SHIFT CONTROL APPARATUS AND CONTROL METHOD FOR VEHICLE

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- ☒ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- ☐ Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application. A copy of the patent(s), together with a copy of the claims and drawings of the pending application(s) is attached along with PTO 1449.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,
MAIER & NEUSTADT, P.C.



Marvin J. Spivak

Registration No. 24,913

C. Irvin McClelland
Registration Number 21,124

Customer Number

22850

Tel. (703) 413-3000
Fax. (703) 413-2220
(OSMMN 05/03)

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STATEMENT OF RELEVANCY

Reference AO (10-89455) on Form PTO-1449:

A rotational speed change rate during acceleration is obtained. Based on the rotational speed change rate, inertia time after command is output until an inertia phase is started is changed such that an engine speed does not exceed an upper limit rotational speed when the inertia phase is started. The invalid time is decided by correcting the inertia time which is required for the previous acceleration. However, the acceleration change rate during acceleration and the inertia time fluctuate according to changes in running resistance such as a change in the torque input in an automatic transmission and a change in a road inclination. Therefore, there is a problem that shift control is not stable.

Reference AP (3-260455) on Form PTO-1449:

When an engine speed exceeds a predetermined rotational speed, upshifting is performed. Then, a set rotational speed is learned and corrected such that the engine speed after an upshift command is output until shifting is completed based on the engine speed does not exceeds a limit rotational speed.

Reference AQ (2-97763) on Form PTO-1449:

A maximum engine speed detected during an upshift to a predetermined shift speed is compared with a target maximum engine speed based on an throttle opening. When the difference is large, a shift pattern (a shift start vehicle speed) during the upshift to the predetermined shift speed is changed such that the maximum engine speed comes close to the target maximum engine speed.

Reference AR (5-14039) on Form PTO-1449:

In the case in which a map for automatic shifting is rewritten to a content of shifting performed manually, when an engine speed during rewrite exceeds a predetermined upper limit, the map is rewritten using the upper limit.

Form PTO 1449
(Modified)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY DOCKET NO.
247208US2SERIAL NO.
New Application

LIST OF REFERENCES CITED BY APPLICANT

APPLICANT
Masumi WADA, et al.FILING DATE
Herewith

GROUP

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						
	AM						
	AN						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AO	10-89455	4/7/98	Japan (with English Abstract)		X
	AP	3-260455	11/20/91	Japan (with English Abstract)		X
	AQ	2-97763	4/10/90	Japan (with English Abstract)		X
	AR	5-14039	4/14/93	Japan		X
	AS					
	AT					
	AU					
	AV					

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

	AW	
	AX	
	AY	
	AZ	<input type="checkbox"/> Additional References sheet(s) attached

Examiner

Date Considered

*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.